ABSTRACT

A fluorine-containing vinyl ether represented by formula 1,

$$H_2C =$$
O-R
 (1)

wherein R represents an organic group containing at least one fluorine atom and a cyclic structure is provided. A fluorine-containing copolymer containing (a) a first unit derived from a first monomer that is a fluorine-containing vinyl ether represented by formula 8:

$$F_{3}C \xrightarrow{CF_{3}} CF_{3}$$

$$(8)$$

where R^1 is -H or a C_1 - C_8 alkyl group that optionally contains an oxygen atom; and (b) a second unit derived from a second monomer that is at least one selected from acrylic esters and methacrylic esters is also provided.